

Notice of Allowability

Application No.

09/428,679

Applicant(s)

SELIGMAN, ADAM L.

Examiner

Kimbinh T. Nguyen

Art Unit

2671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 10/19/05.
2. ☒ The allowed claim(s) is/are 6,7,9-12,15-18,20,22-26,28,29 and 31-36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 03/08/02.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. This action is responsive to amendment filed 10/19/05.
2. Claims 6, 7, 9-12, 15-18, 20, 22-26, 28, 29, 31-36 are pending in the application.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Claims 6, the prior art does not teach a method for utilizing a network of computers to render a 3D scene, comprising: sending a plurality of requests from a first computer to a plurality of other computers over a high speed network, the other computers each storing high resolution three dimensional scene object, wherein the request identify selected three dimensional object stored at the plurality of other computers; operating the plurality of other computers in parallel to create respective LOD mesh representations of the selected three dimensional object stored at the other computers; and communicating the respective LOD mesh representations of the selected three dimensional object from the plurality of other computers in parallel over the network to the first computer, and processing the received LOD mesh representations in a graphics rendering pipeline in the first computer to create solely from the receive LOD mesh representations, a display image of a three dimensional scene.

Claims 12, 17 the prior art does not teach a computer system for rendering a 3D scene, comprising: the visualization console storing identifiers of each of the 3D stored at workstations; wherein the visualization console is operable under user control to communicate requests to the plurality of workstations over the high speed network, said

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request including identifiers of selected ones of the three dimensional object stored at the workstations representing a selected view of the three dimensional scene; the workstations are responsive to received request to operate in parallel to create LOD representations of the respective stored three dimensional object identified by the request received from the visualization console for assembling the complete selected view of 3D scene and to communicate the LOD representations of the selected three dimensional objects in parallel to the visualization console for rendering by the visualization console graphics processor to create a composite image display representation by the visualization console display of the selected view of the 3D scene, assembled solely from LOD mesh representations communicated by the workstations to the visualization console.

Claims 23, 28, 31-33 are allowed upon the same reasons as claims 6 and 12; further, the prior art does not teach the 3D scene objects are stored at the second computers as high resolution models, and the processing carried out by the second computer creates respective meshes of the retrieved 3D scene objects at a selected lower level of resolution.

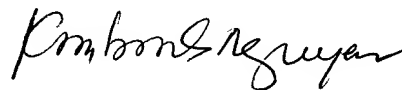
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimbinh T. Nguyen whose telephone number is (571) 272-7644. The examiner can normally be reached on Monday to Thursday from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached at (571) 272-7782. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 28, 2005



KIMBINH T. NGUYEN
PRIMARY EXAMINER